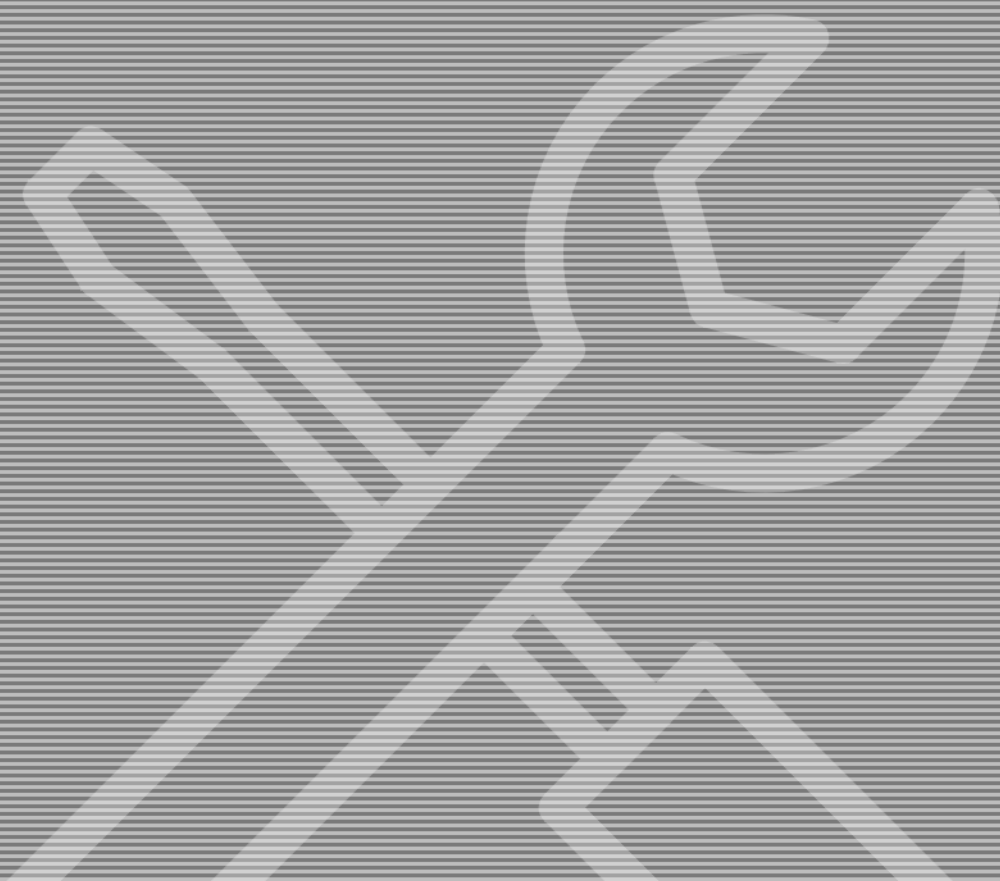


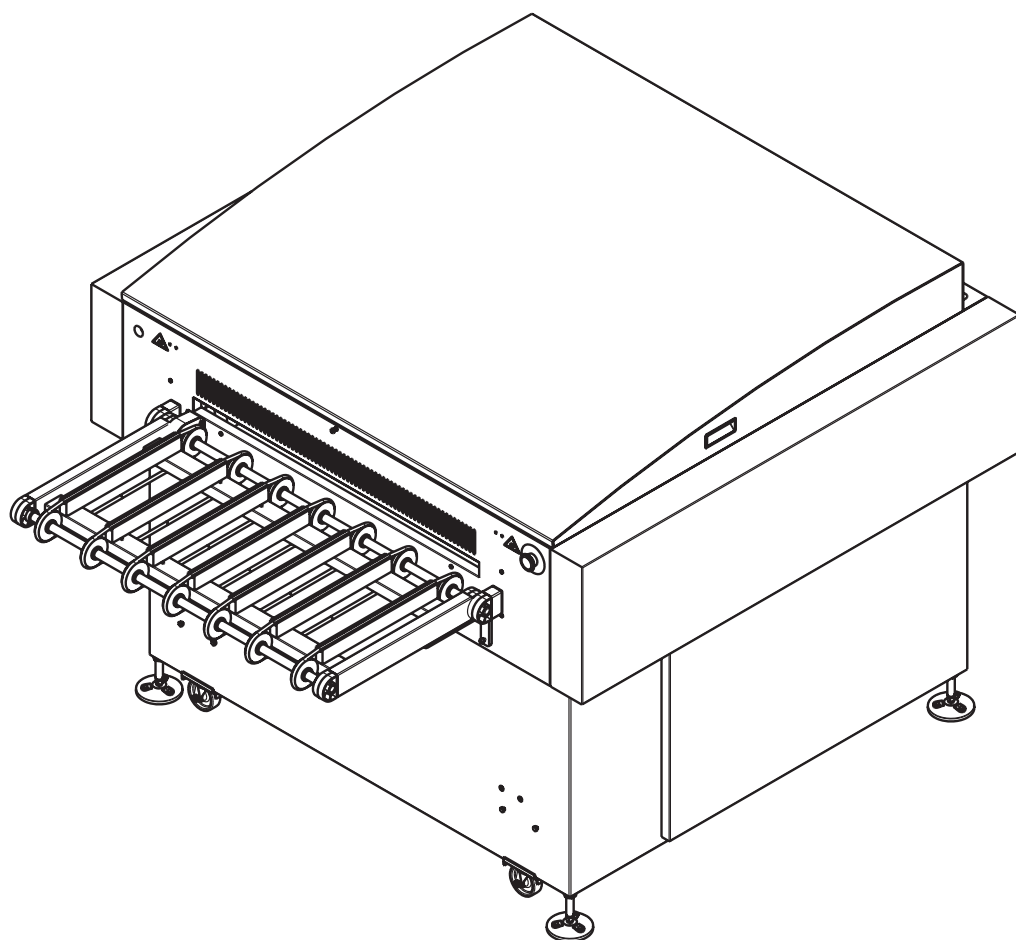
Service Manual



Conveyor Systems for Quartz Supreme Ovens

Service manual

Conveyor Systems for Quartz Supreme Ovens



Edition AF, March 2011
This book has part No. 51526

Part 0: General information

This manual

Products covered

This manual is valid for:

- Quartz Supreme Prebake ovens 85
- Quartz Supreme Prebake ovens 125
- Quartz Supreme Postbake ovens 85
- Quartz Supreme Postbake ovens 125



This manual is for Service Technicians only.

The directions given must not be followed by unauthorized personnel.

Always read the *Safety Instruction Manual part No 21741* before installing the equipment.

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Reservations

- This manual was written and illustrated using the best possible information available at the time of publication.
- Any differences between this manual and the equipment reflect improvements introduced after the publication of the manual.
- Changes, technical inaccuracies and typographic errors will be corrected in subsequent editions.
- As a part of our policy of continuous improvement, we reserve the right to alter design and specifications without further notice.

Notes, Cautions, and Warnings

Throughout the manual notes, cautions, and warnings are written in bold like the example below:



Always replace a fuse with one of the same size and rating as the old one.

Symbol	Meaning	Explanation
	Note	The operator should observe and/or act according to the information in order to obtain the best possible function of the equipment.
	Caution	The operator must observe and/or act according to the information in order to avoid any mechanical or electrical damage to the equipment.
	Warning	The operator must observe and/or act according to the information in order to avoid any personal injury.

Important

Unintended use of the equipment

Glunz & Jensen A/S do not take any responsibility for any damage or accidents caused by unintended use of the equipment:

- As the equipment is certified by accredited test laboratory (UL International Demko A/S) it is absolutely prohibited to make any modifications, electrical nor mechanical, of the equipment. If however this prohibition is disregarded, Glunz & Jensen's warranty will no longer apply and the certification labels for UL, C-UL, and CE certification of the equipment shall be removed as the certification will no longer apply to the equipment.

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Part 1: Technical specifications

General environmental information

The Oven

All information regarding environmental information, technical and electrical specifications for the oven are specified in the oven service manuals chapter 1 and electrical diagrams are listed in Appendix A.

Dimensions

The various conveyors etc. are available in the following lengths.

Name	Type	Length	Description
Driven Feed Table	Belt (85 & 125)	500 mm	See page 3-1
Driven Feed Table	Belt (85 & 125)	1000 mm	
Driven Feed Table	Belt (85)	1300 mm	
Driven Feed Table	Belt (125)	1600 mm	
Driven Exit Table	Mesh (85 & 125)	500 mm	See page 3-2
Driven Exit Table	Slat (85 & 125)	1000 mm	
Driven Exit Table	Mesh (85 & 125)	1000 mm	
Input Exit Table	Non-driven (85 & 125)	375 mm	See page 3-3
Input Exit Table	Non-driven (85 & 125)	500 mm	
Fixed Input/Output Table	Non-driven (85 & 125)	100 mm	

Significant plastic parts are marked according to ISO 11469.

End of life

Estimated product life: 10 years

Spare parts and service period: 7 years after last sales.

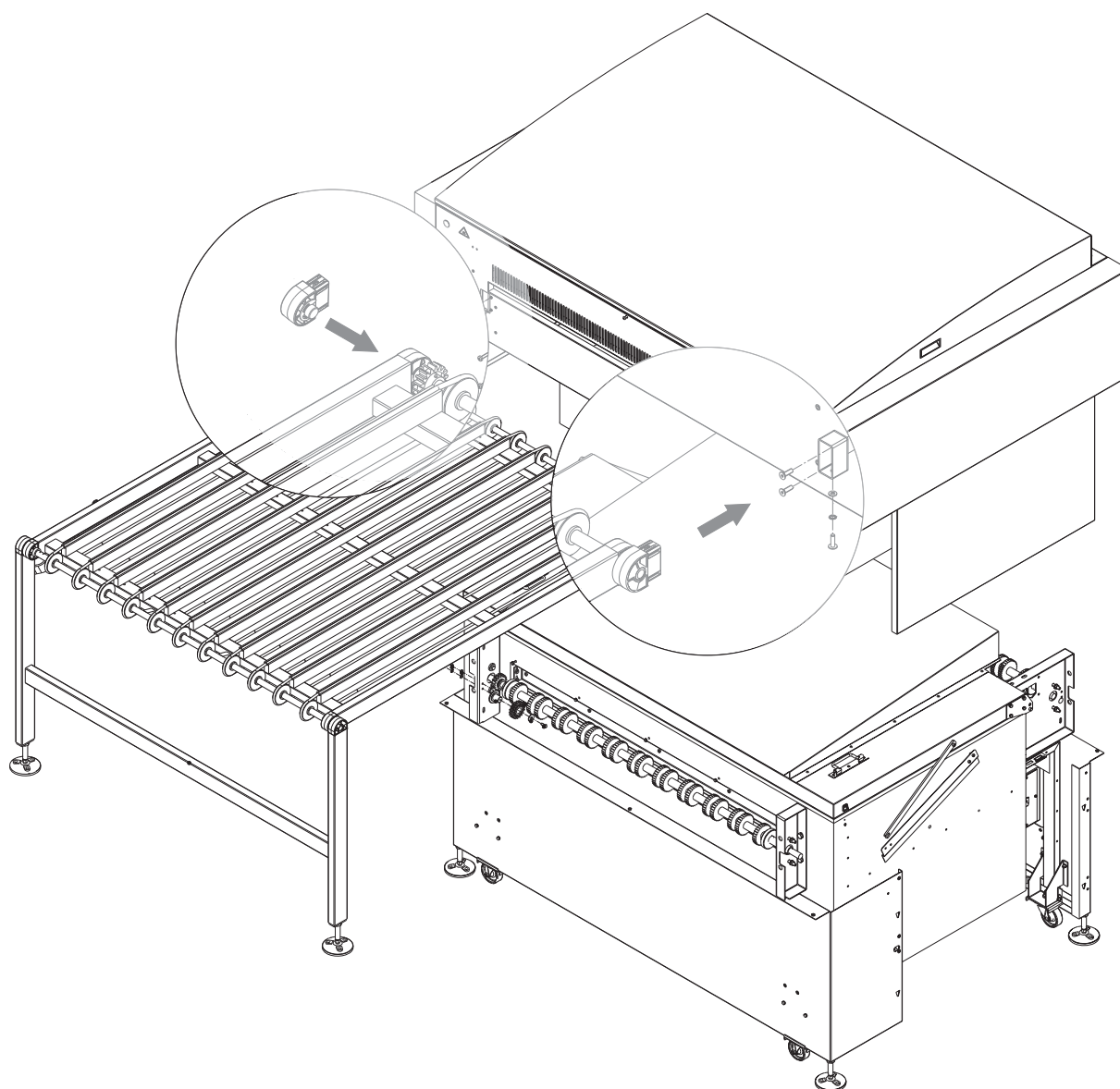
Recycling

The processor should be disposed at a certified appliance recycling centre or processing centre.

Recycling Passport with specifications of components and materials used in this processor is available on www.glunz-jensen.com/support.

Packaging

Plastic packaging materials are marked according to ISO 11469.



Part 2: Installation

General

 The installation procedure must only be carried out by a well-qualified service technician, who is familiar with the equipment. The manufacturer cannot be held responsible for any damage caused by incorrect installation of the equipment.

 Before servicing the machine all power supply must be disconnected.

 Make sure that the circlips are facing as shown below:



Bearing block

Installing Driven Feed/Exit Conveyors

See illustration opposite.

- 1 Mount the bearing block (picture above) on the conveyor roller ends (both sides) as shown in the picture opposite. The brackets will feel tight when mounting.
- 2 Place the conveyor in the brackets on the oven's front panel as illustrated opposite. Secure the conveyor with screws and washers.

Installing Non-driven Conveyors and Fixed Exit Tables

- 1 Align the mounting holes of the conveyor to the corresponding nuts on the oven.
- 2 Secure the conveyor/exit table with the delivered screws.

Finishing installation

When the installation procedures described in this manual are completed please continue with the procedures for "Finishing installation" described on the last pages in the Processor Installation manual.

Part 3: Functional description

Driven Feed Tables

General

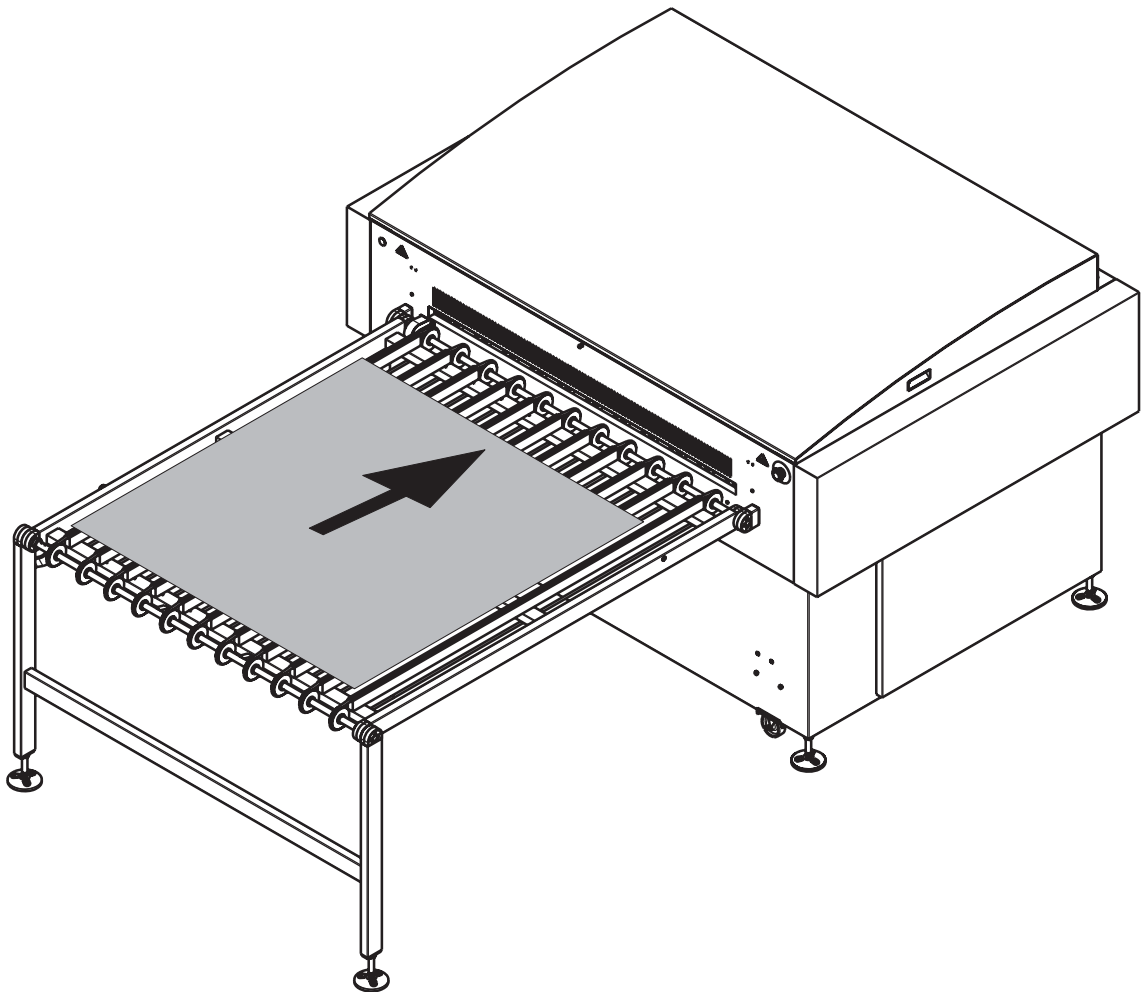
The Driven Feed Table is for the driven feed of plate material and is used for inline and/or offline plateline systems.

The Driven Feed Table will run constantly as long as the oven is in operation.

Oven Control

All control of the oven and monitoring of the process is done from the oven control panel. See the Oven Service manual.

Plates can be entered into the oven when the oven has reached the preset temperature and the alarm indicator (H2) has gone off. Please refer to the Oven User Manual for more details.



Driven Exit Table (mesh and slat)

General

The Driven Exit Table is for the driven exit of plate material and is used for inline and/or offline plateline systems. The Driven Exit Table will run constantly as long as the Oven is in operation.

The driven exit table is available in two versions:

- Slat conveyor for fast cooling of plates
- Mesh conveyor for slow cooling of plates

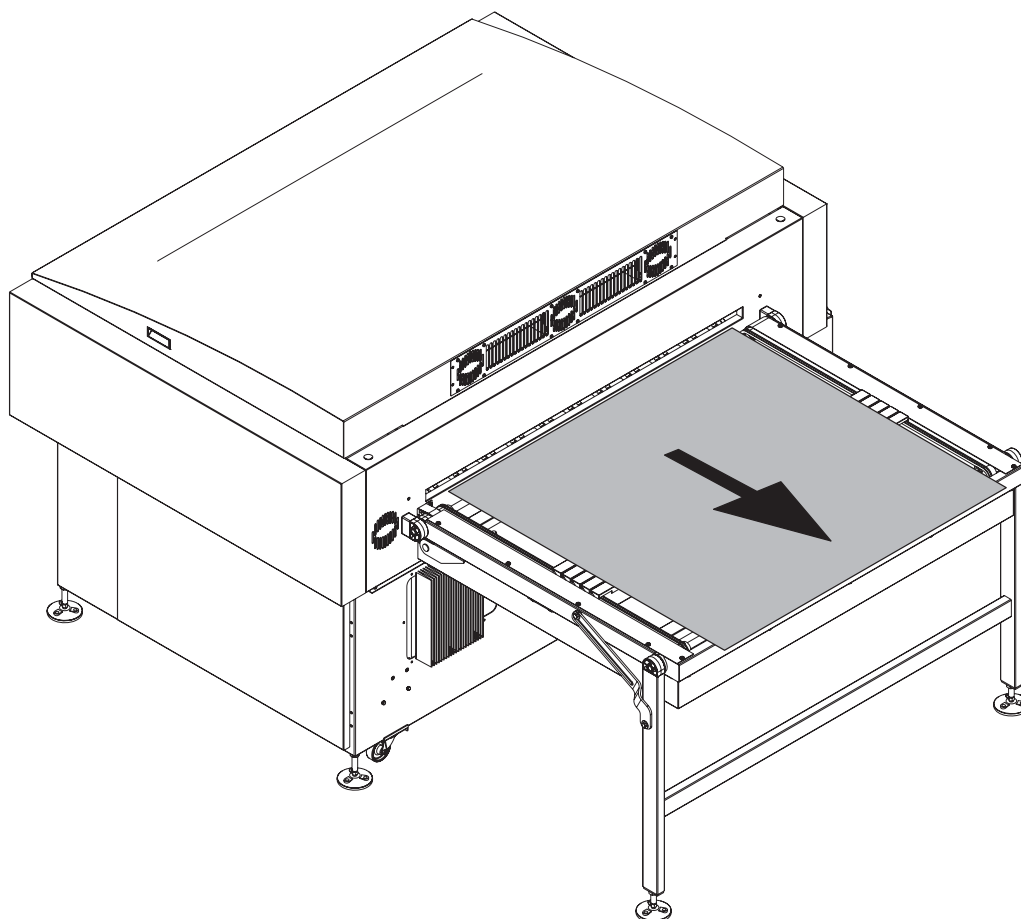
We recommend that the slat conveyor be used as an exit conveyor for the Prebake Oven.

The mesh conveyor should be used as an exit conveyor for the Postbake Oven. This is to prevent a too rapid cool-down of the plates and plate warping.

Oven Control

All control of the oven and monitoring of the process is done from the oven control panel. See the Oven Service manual.

Plates can be entered into the oven when the oven has reached the preset temperature and the alarm indicator (H2) has gone off. Please refer to the Oven User Manual for more details.



Input-Exit Table

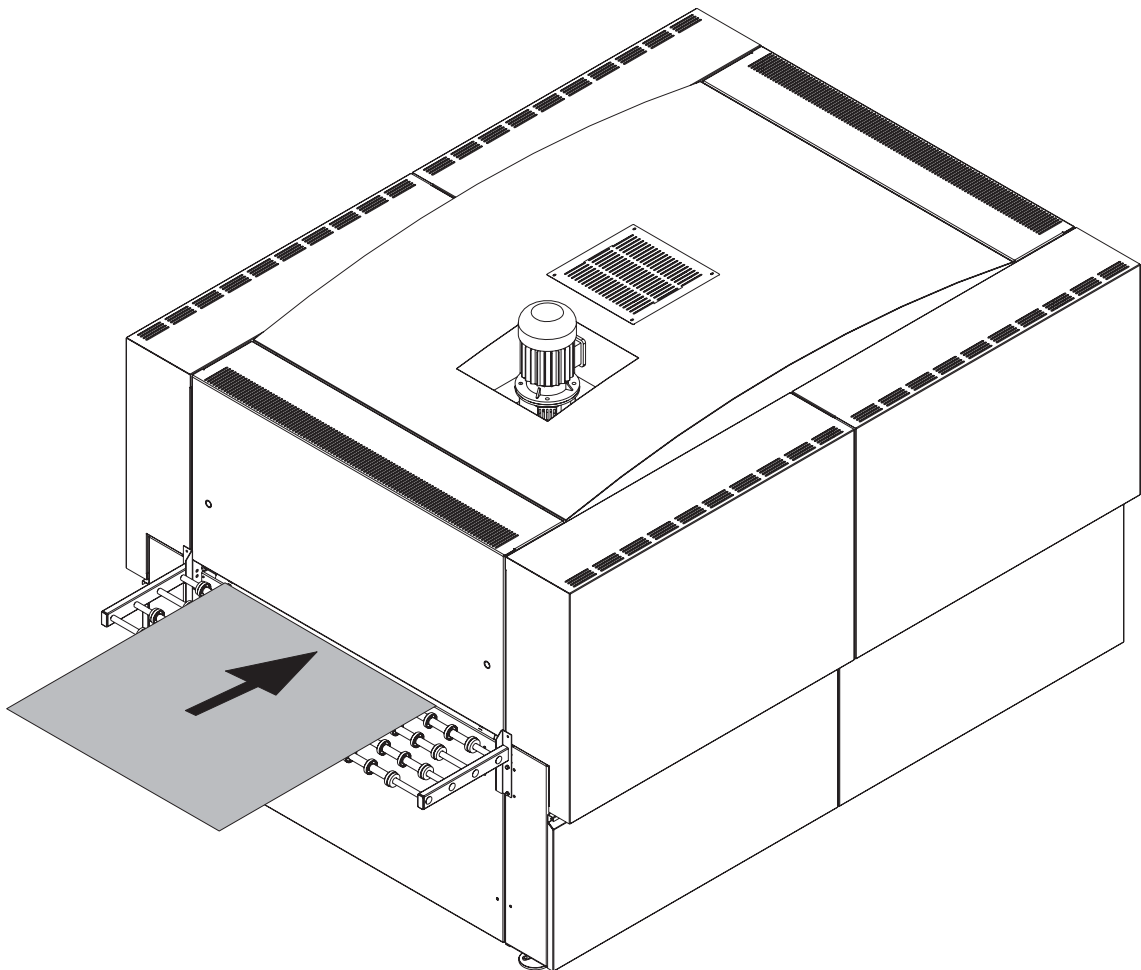
General

The Input-Exit Table is for the non-driven feed of plate material into and out of the oven, and is used for inline and/or offline plateline systems.

Oven Control

All control of the oven and monitoring of the process is done from the oven control panel. See the Oven Service manual.

Plates can be entered into the oven when the oven has reached the preset temperature and the alarm indicator (H2) has gone off. Please refer to the Oven User Manual for more details.



Part 4: Troubleshooting

General

In case of problems, please refer to the troubleshooting section in your oven service manual.

Part 5: Spare parts

General

Spare parts related to the conveyor systems are described in this chapter. Other spare parts for the ovens are described in the oven service manuals.

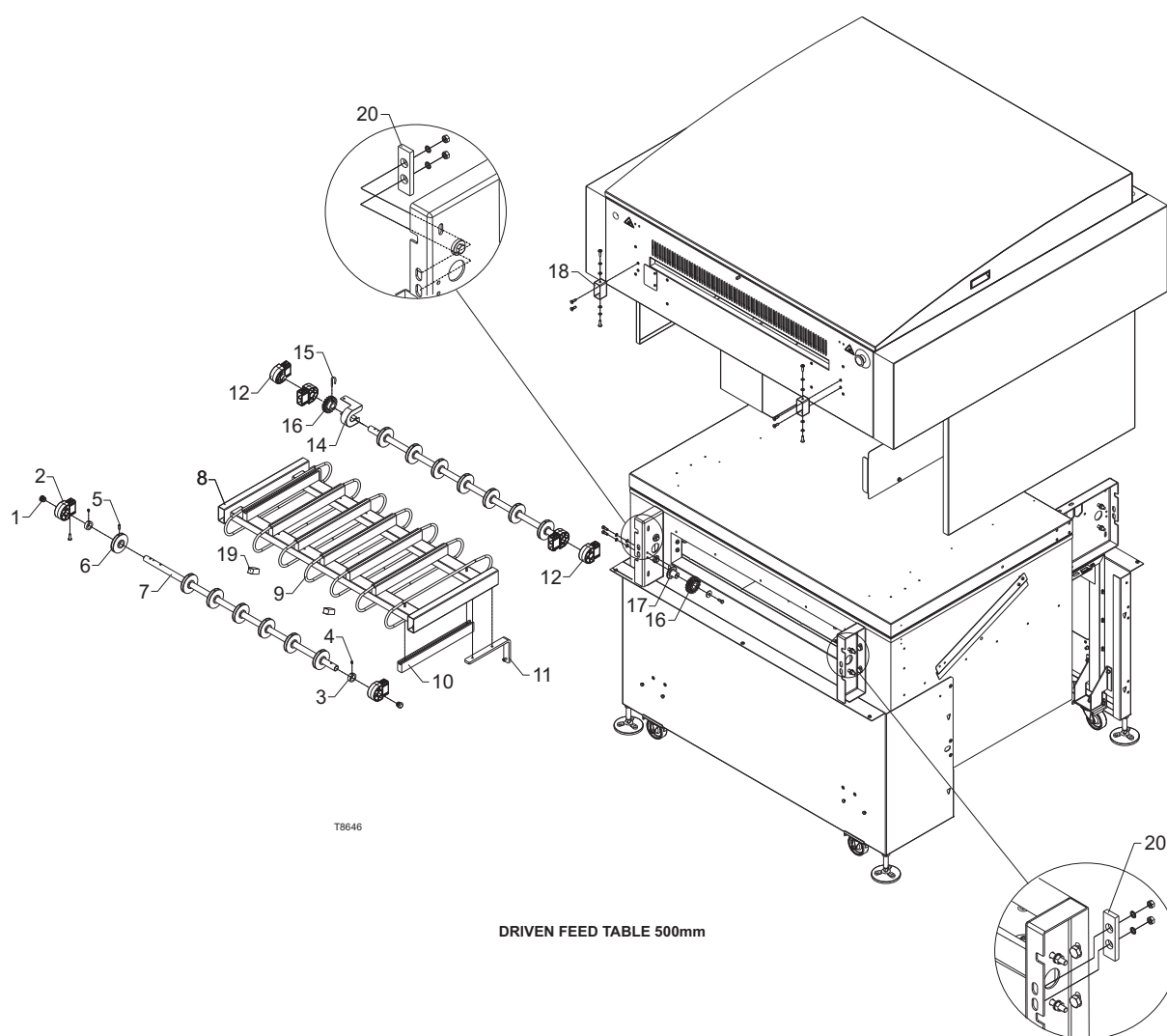
Ordering spare parts

When ordering spare parts:

Please state carefully the spare part number, the specification and the number of items wanted.

Parts delivered

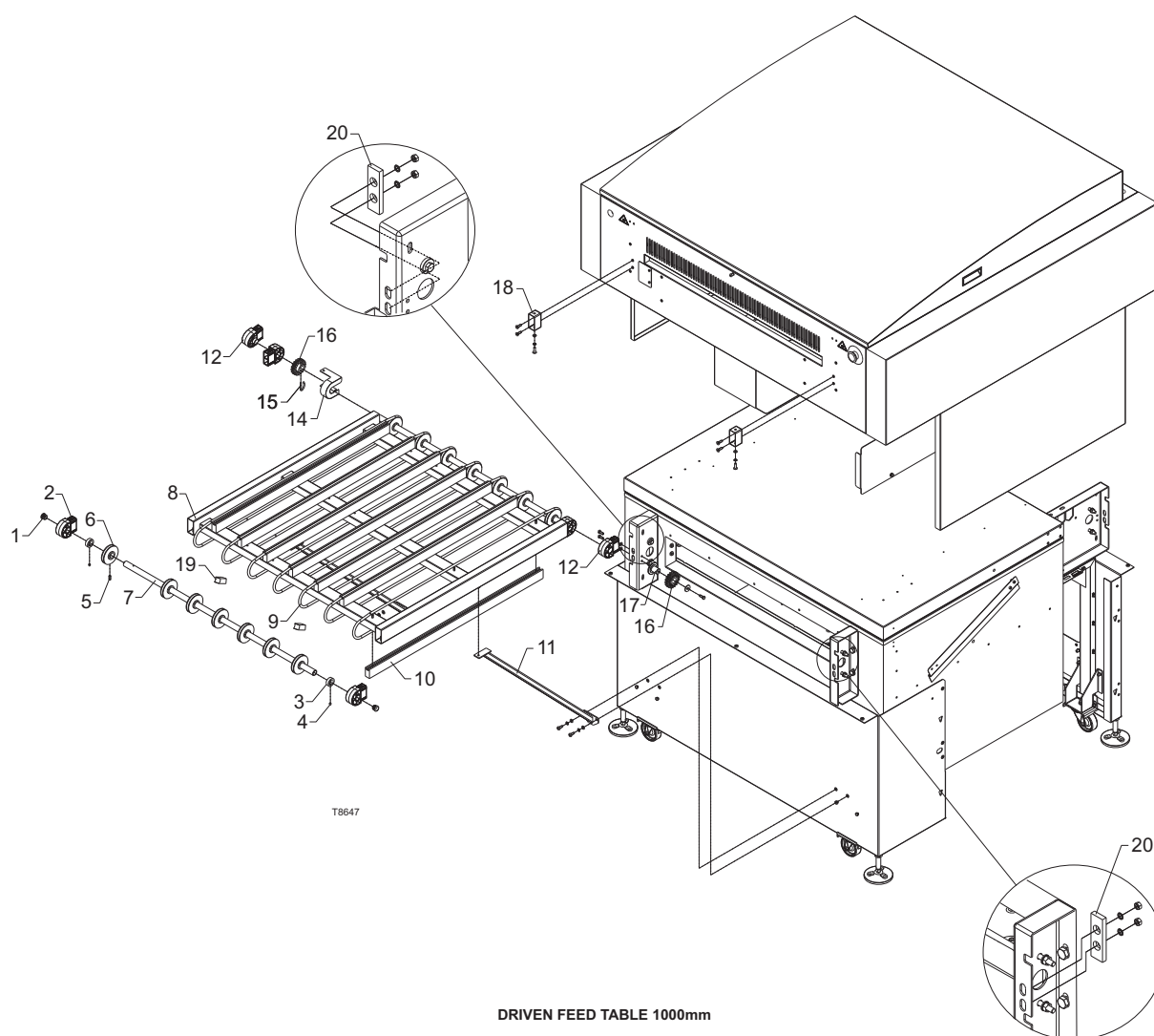
Parts delivered are specified on an enclosed packing list.



Driven feed table 500mm

Pos.	85	125	Specification
1	22714031	22714031	PLUG TUBE
2	10016868	10016868	BEARING, BLOCK, STACKER
3	21642125	21642125	COLLAR, I/D, D20MM, BLACK HD
4	15255	22050320	SCREW SOC SET M6 X 6
5	5060	5060	SCREW, ALLEN, 6 X 16 MM
6	21642203	21642203	PULLEY WHEEL, D20
7	21836247	21113757	TUBE, DRIVE, CONVEYOR
8	21112926	21113753	FRAME, CONVEYOR
9	10060829	10060829	BELTING, 1075LG
10	21113344	21113344	BELT SUPPORT
11	21112932	21112932	BRACKET, FRAME, CONVEYOR
12	10046253	10046253	BEARING, BLOCK, CPO/PBO
13			
14	10040958	10040964	GEAR, GUARD
15	44912	44912	CLIPS, R-SHAPE, D4.0
16	43220	43220	GEAR Z18 M3
17	10032340	10032340	BLOCK, SUPPORT, GEAR
*	10045876	10045876	BLOCK, SUPPORT, GEAR,L=40
18	21112930	21112930	BRACKET, CONVEYOR, SUPPORT
19		10034493	BEARING, CONVEYOR
20	10045880	10045880	PLATE, CONVEYOR, SHORT

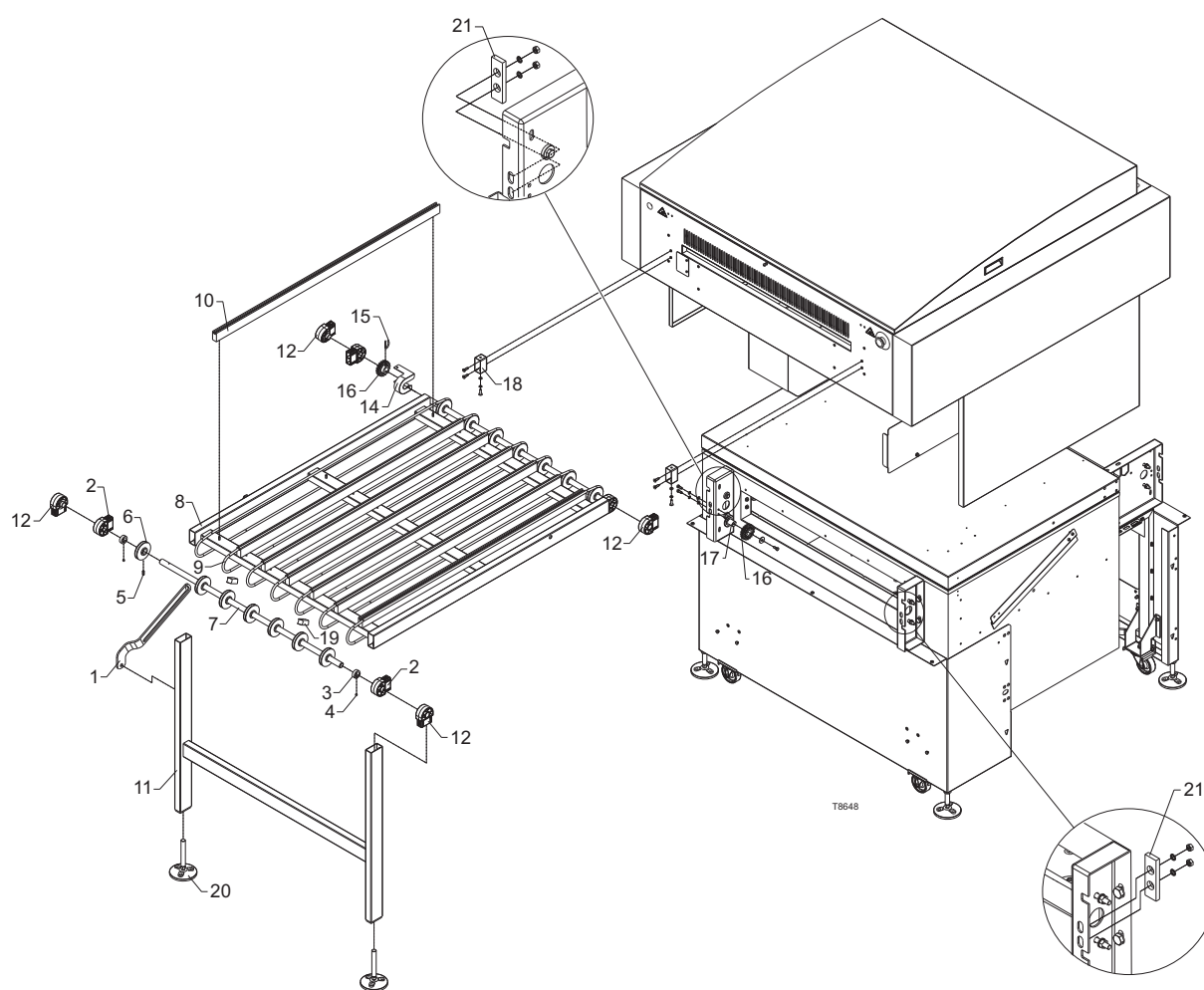
* Spare parts numbers for Compact Prebake Oven



Driven feed table 1000mm

Pos.	85	125	Specification
1	22714031	22714031	PLUG TUBE
2	10016868	10016868	BEARING, BLOCK, STACKER
3	21642125	21642125	COLLAR, I/D, D20MM, BLACK HD
4	22050320	22050320	SCREW SOC SET M6 X 6
5	5060	5060	SCREW, ALLEN, 6 X 16 MM
6	21642203	21642203	PULLEY WHEEL, D20
7	21836247	21113757	TUBE, DRIVE, CONVEYOR
8	21113863	21113865	FRAME, CONVEYOR
9	10060830	10060830	BELTING, 2090LG
10	21113869	21113869	BELT, SUPPORT, CONVEYOR
11	21113925	21113925	STAY, CONVEYOR
12	10046253	10046253	BEARING, BLOCK, CPO/PBO
13			
14	10040958	10040964	GEAR, GUARD
15	44912	44912	CLIPS, R-SHAPE, D4.0
16	43220	43220	GEAR Z18 M3
17	10032340	10032340	BLOCK, SUPPORT, GEAR
*	10045876	10045876	BLOCK, SUPPORT, GEAR,L=40
18	21112930	21112930	BRACKET, CONVEYOR, SUPPORT
19		10034493	BEARING, CONVEYOR
20	10045880	10045880	PLATE, CONVEYOR, SHORT

* Spare parts numbers for Compact Prebake Oven

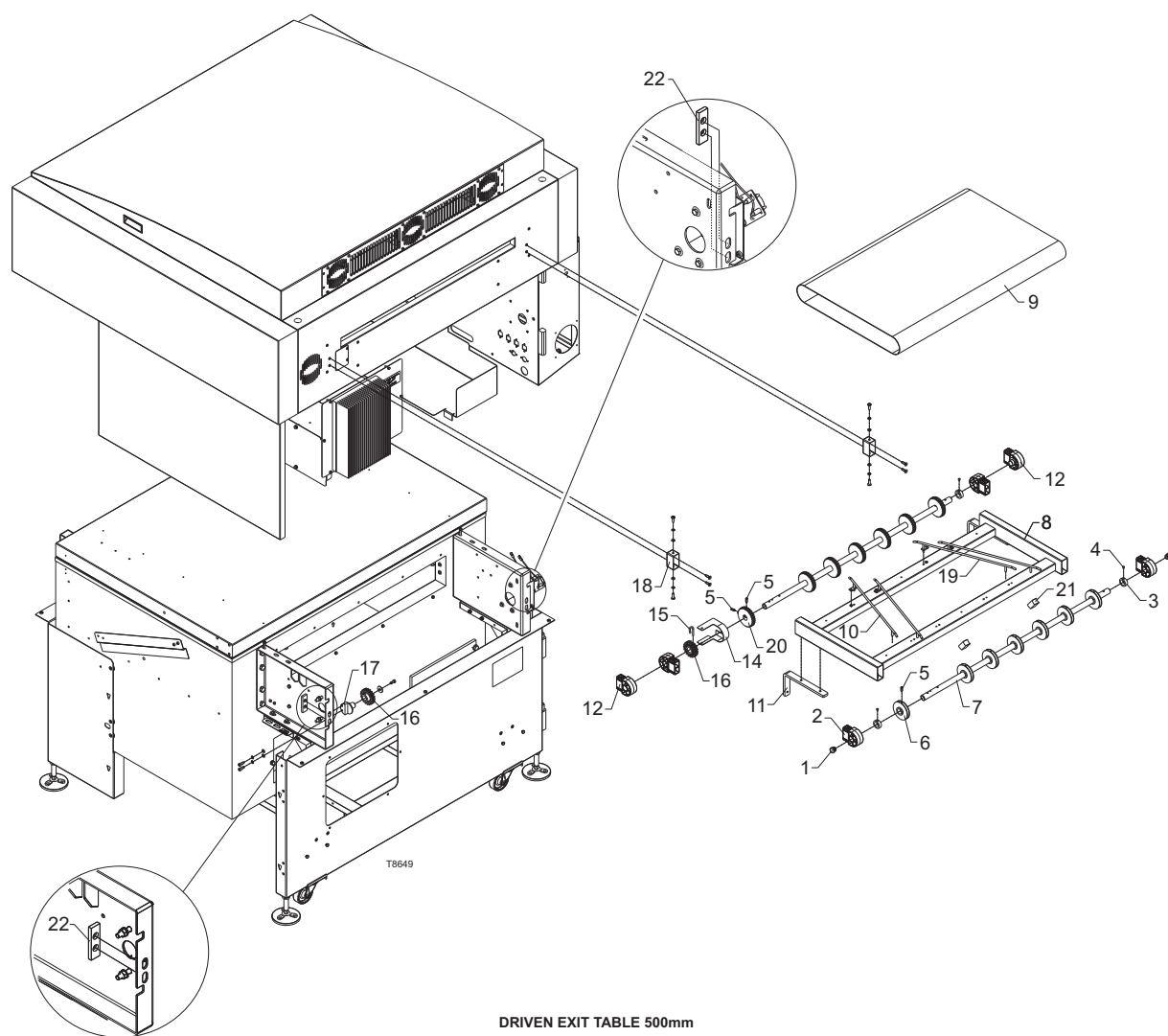


DRIVEN FEED TABLE 1300/1600 mm

Driven feed table 1300/1600mm

Pos.	85(1300)	125(1600)	Specification
1	10033324	10033324	STAY, LEG, CONVEYOR
2	10016868	10016868	BEARING, BLOCK, STACKER
3	21642125	21642125	COLLAR, I/D, D20MM, BLACK HD
4	22050320	22050320	SCREW SOC SET M6 X 6
5	5060	5060	SCREW, ALLEN, 6 X 16 MM
6	21642203	21642203	PULLEY WHEEL, D20
7	21836247	21113757	TUBE, DRIVE, CONVEYOR
8	10033312	10033329	FRAME, CONVEYOR
9	10060832		BELTING, 2620LG
		10060834	BELTING, 3280LG
10	10033317	10033334	SUPPORT, BELT, CONVEYOR
11	10033319	10033336	LEG, CONVEYOR
12	10046253	10046253	BEARING, BLOCK, CPO/PBO
13			
14	10040958	10040964	GEAR, GUARD
15	44912	44912	CLIPS, R-SHAPE, D4.0
16	43220	43220	GEAR Z18 M3
17	10032340	10032340	BLOCK, SUPPORT, GEAR
*	10045876	10045876	BLOCK, SUPPORT, GEAR, L=40
18	21112930	21112930	BRACKET, CONVEYOR, SUPPORT
19		10034493	BEARING, CONVEYOR
20	21050996	21050996	FOOT, STANDARD 135 HIGH, 16MM THREAD
21	10045880	10045880	PLATE, CONVEYOR, SHORT

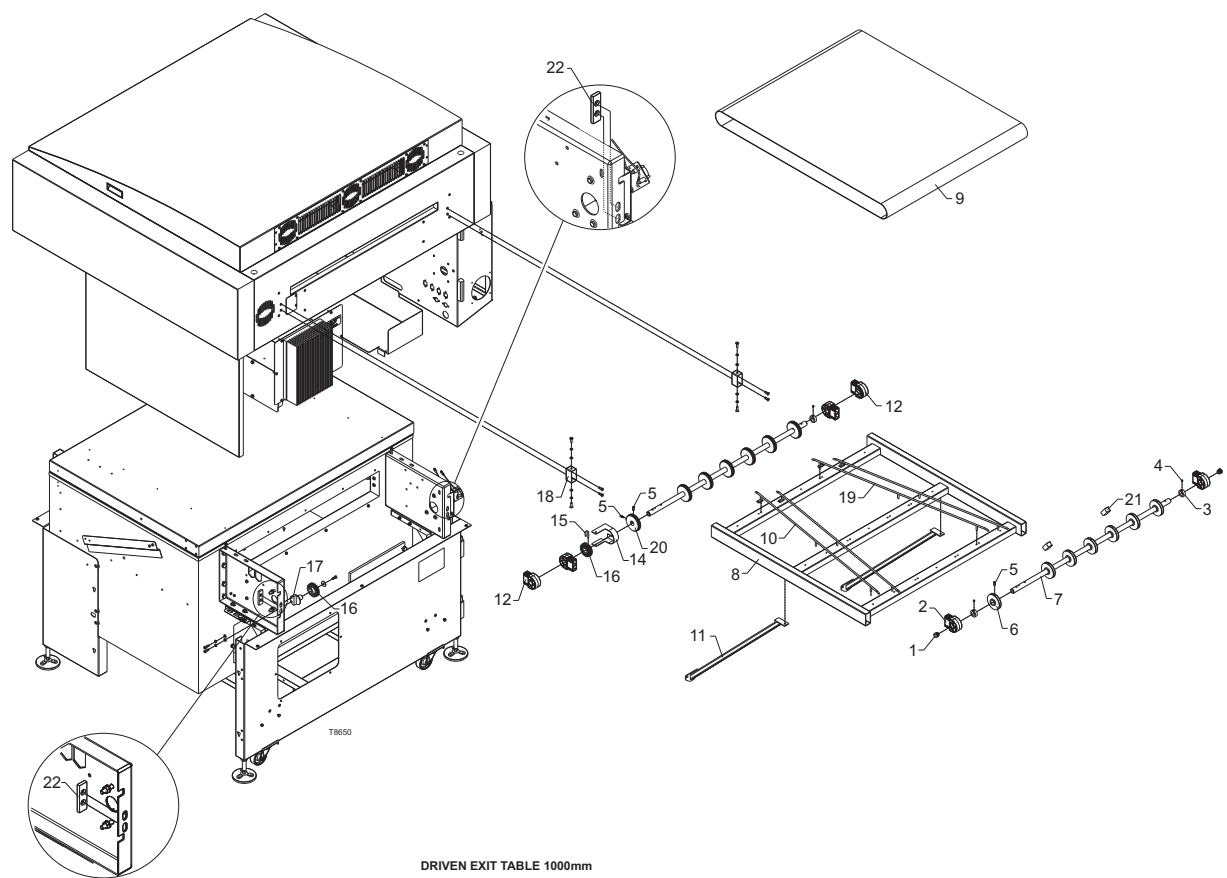
* Spare parts numbers for Compact Prebake Oven



Driven exit table 500mm (mesh)

Pos.	85	125	Specification
1	22714031	22714031	PLUG TUBE
2	10016868	10016868	BEARING, BLOCK, STACKER
3	21642125	21642125	COLLAR, I/D, D20MM, BLACK HD
4	22050320	22050320	SCREW SOC SET M6 X 6
5	5060	5060	SCREW, ALLEN, 6 X 16 MM
6	21642203	21642203	PULLEY WHEEL, D20
7	21836247	21113757	TUBE, DRIVE, CONVEYOR
8	21112926	21113753	FRAME, CONVEYOR
9	21836235	10024315	BELT, 500
10	21113773	21113773	SUPPORT, MESH, BELT
11	21112932	21112932	BRACKET, FRAME, CONVEYOR
12	10046253	10046253	BEARING, BLOCK, CPO/PBO
13			
14	10040958	10040964	GEAR, GUARD
15	44912	44912	CLIPS, R-SHAPE, D4.0
16	43220	43220	GEAR Z18 M3
17	10032340	10032340	BLOCK, SUPPORT, GEAR
*	10045876	10045876	BLOCK, SUPPORT, GEAR,L=40
18	21112930	21112930	BRACKET, CONVEYOR, SUPPORT
19	21113774	21113774	SUPPORT, MESH, BELT
20	10041259		SPROCKET, 29T, PLASTIC
		21113839	SPUR GEAR, 2.5M 28T 20 BORE
21		10034493	BEARING, CONVEYOR
22	10045880	10045880	PLATE, CONVEYOR, SHORT

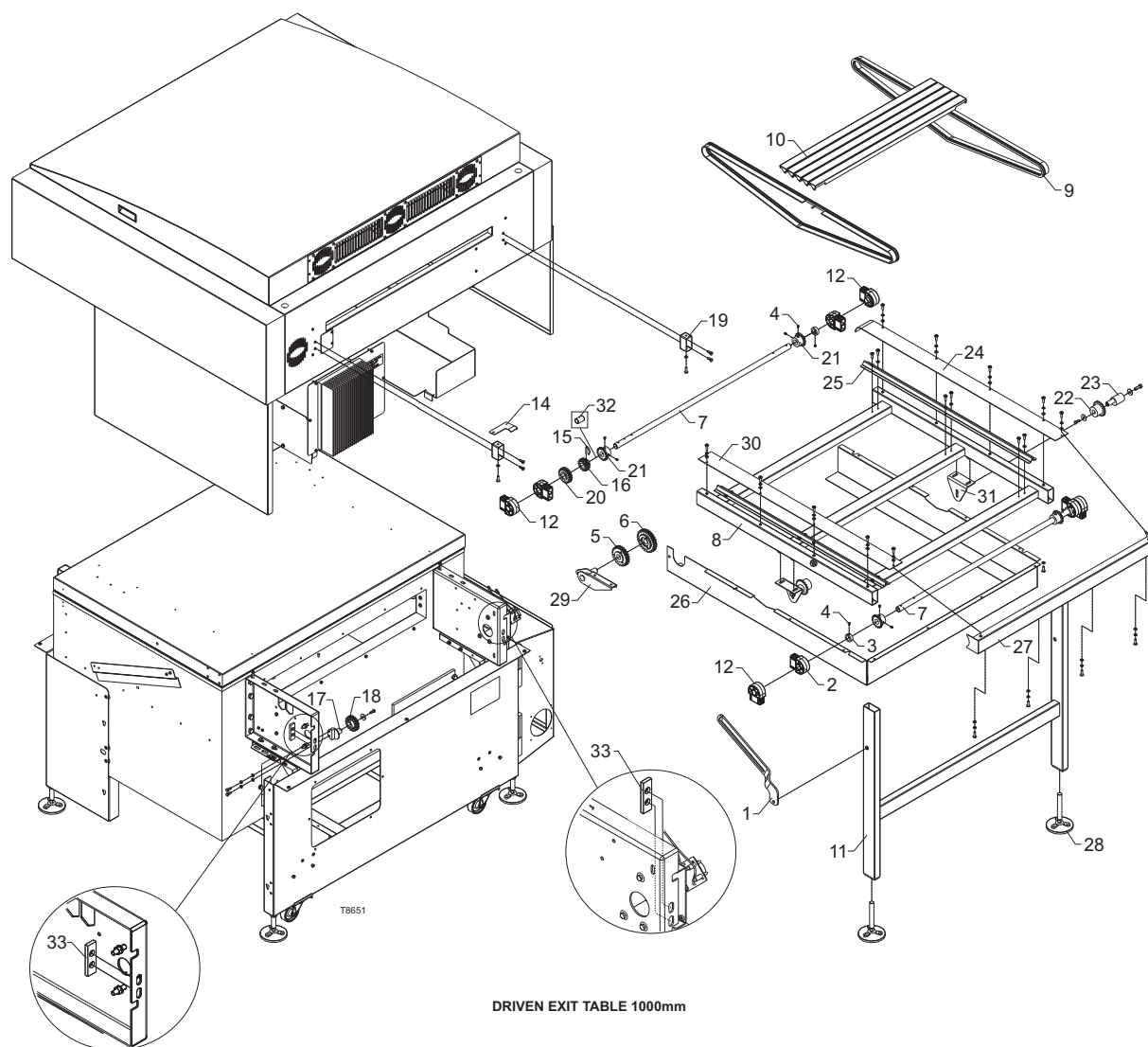
* Spare parts numbers for Compact Prebake Oven



Driven exit table 1000mm (mesh)

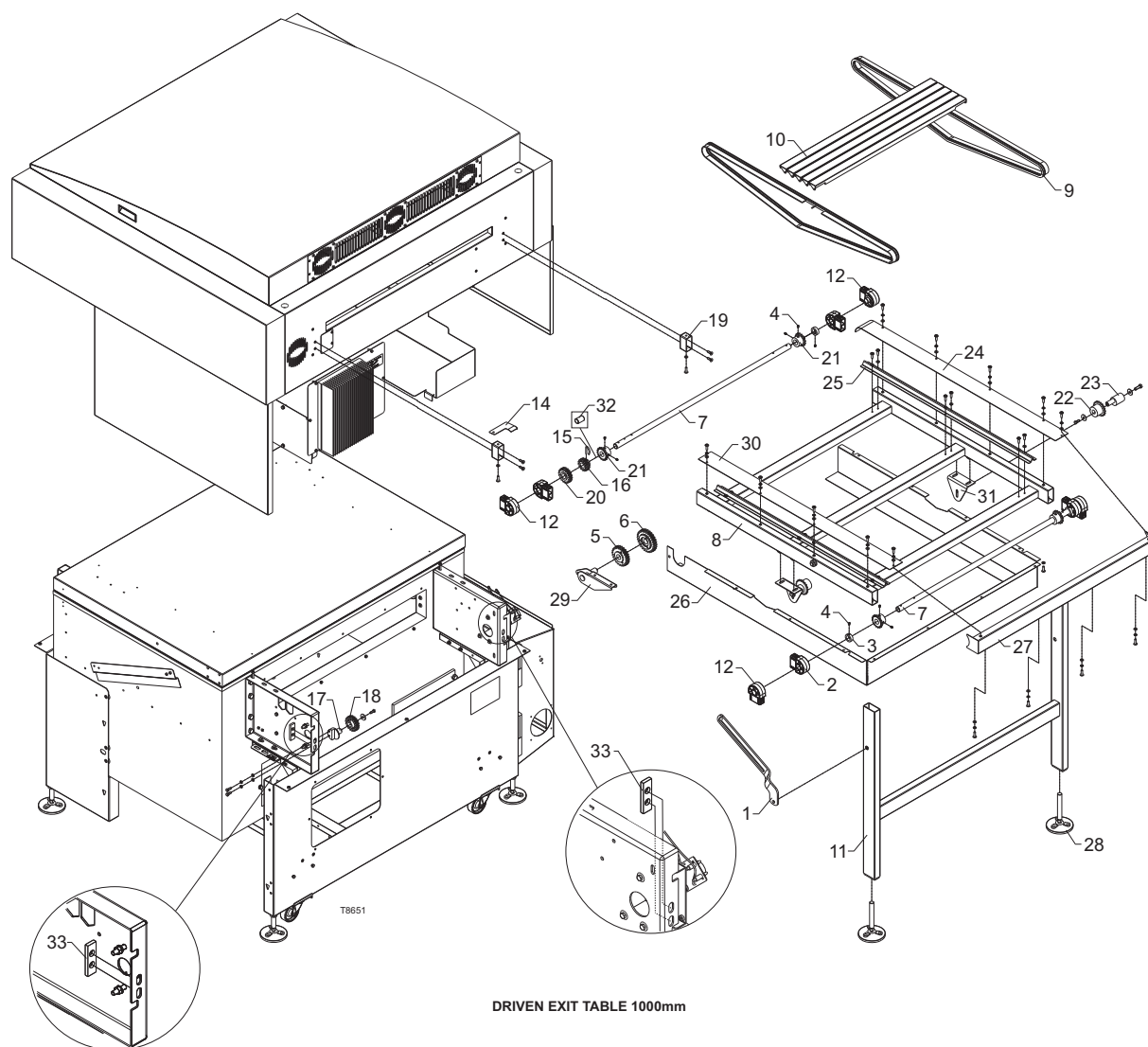
Pos.	85	125	Specification
1	22714031	22714031	PLUG TUBE
2	10016868	10016868	BEARING, BLOCK, STACKER
3	21642125	21642125	COLLAR, I/D, D20MM, BLACK HD
4	22050320	22050320	SCREW SOC SET M6 X 6
5	5060	5060	SCREW, ALLEN, 6 X 16 MM
6	21642203	21642203	PULLEY WHEEL, D20
7	21836247	21113757	TUBE, DRIVE, CONVEYOR
8	21113863	21113865	FRAME, CONVEYOR
9	21836251	10024316	BELT, 1000
10	21113870	21113870	SUPPORT, MESH, BELT
11	21113925	21113925	STAY, CONVEYOR, 1000
12	10046253	10046253	BEARING, BLOCK, CPO/PBO
13			
14	10040958	10040964	GEAR, GUARD
15	44912	44912	CLIPS, R-SHAPE, D4.0
16	43220	43220	GEAR Z18 M3
17	10032340	10032340	BLOCK, SUPPORT, GEAR
*	10045876	10045876	BLOCK, SUPPORT, GEAR,L=40
18	21112930	21112930	BRACKET, CONVEYOR, SUPPORT
19	21113871	21113871	SUPPORT, MESH, BELT
20	10041259		SPROCKET, 29T, PLASTIC
		21113839	SPUR GEAR, 2.5M 28T 20 BORE
21		10034493	BEARING, CONVEYOR
22	10045880	10045880	PLATE, CONVEYOR, SHORT

* Spare parts numbers for Compact Prebake Oven



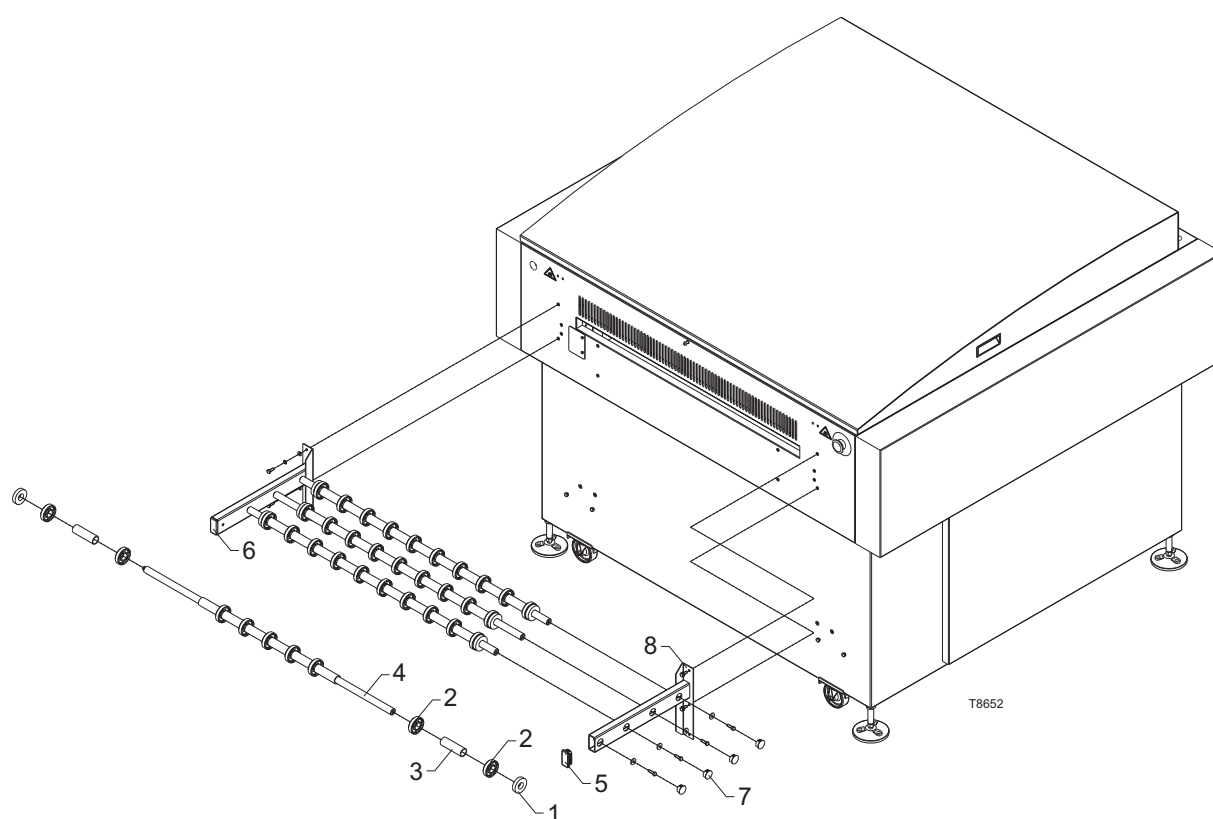
Driven exit table 1000mm (slat)

Pos.	85	125	Specification
1	10033324	10033324	STAY, LEG, CONVEYOR
2	10016868	10016868	BEARING, BLOCK, STACKER
3	21642125	21642125	COLLAR, I/D, D20MM, BLACK HD
4	15255	15255	SCREW M6X6 HE SO CP2
5	10034246		GEAR, Z24, M3
		10034247	GEAR, Z28, M3
6	10034247		GEAR, Z28, M3
		10034246	GEAR, Z24, M3
7	10034254	10034255	TUBE, EXIT, CONVEYOR
8	10033353	10034215	FRAME, CONVEYOR
9	10034229	10034229	CHAIN, 3/8"P, EXT.PIN1.5"20LG
10	10034240	10034241	SLAT, CONVEYOR
11	10033319	10033336	LEG, CONVEYOR
12	10046253	10046253	BEARING, BLOCK, CPO/PBO
13			
14	10043004	10043004	GUARD, GEAR
15	44912	44912	CLIPS, R-SHAPE, D4.0
16	10034244		GEAR, Z14, M3
		10034245	GEAR, Z18, M3
17	10032340	10032340	BLOCK, SUPPORT, GEAR
*	10045876	10045876	BLOCK, SUPPORT, GEAR,L=40
18	43220	43220	GEAR Z18 M3
19	21112930	21112930	BRACKET, CONVEYOR, SUPPORT
20	10034245		GEAR, Z18, M3
		10048936	GEAR, Z14, M3
21	10033357	10033357	SPOCKET, SIMPLEX, 16T
22	21050090	21050090	SPROCKET, OILITE FCT, 19Z
23	10034243	10034243	ECCENTRIC, IDLER, SPIGOT
24	10034232	10034232	GUARD, TOP, RH, CONVEYOR
25	10033358	10033358	RUNNER, CONVEYOR
26	10034234	10034236	GUARD, LOWER, CONVEYOR



Driven exit table 1000mm (slat)

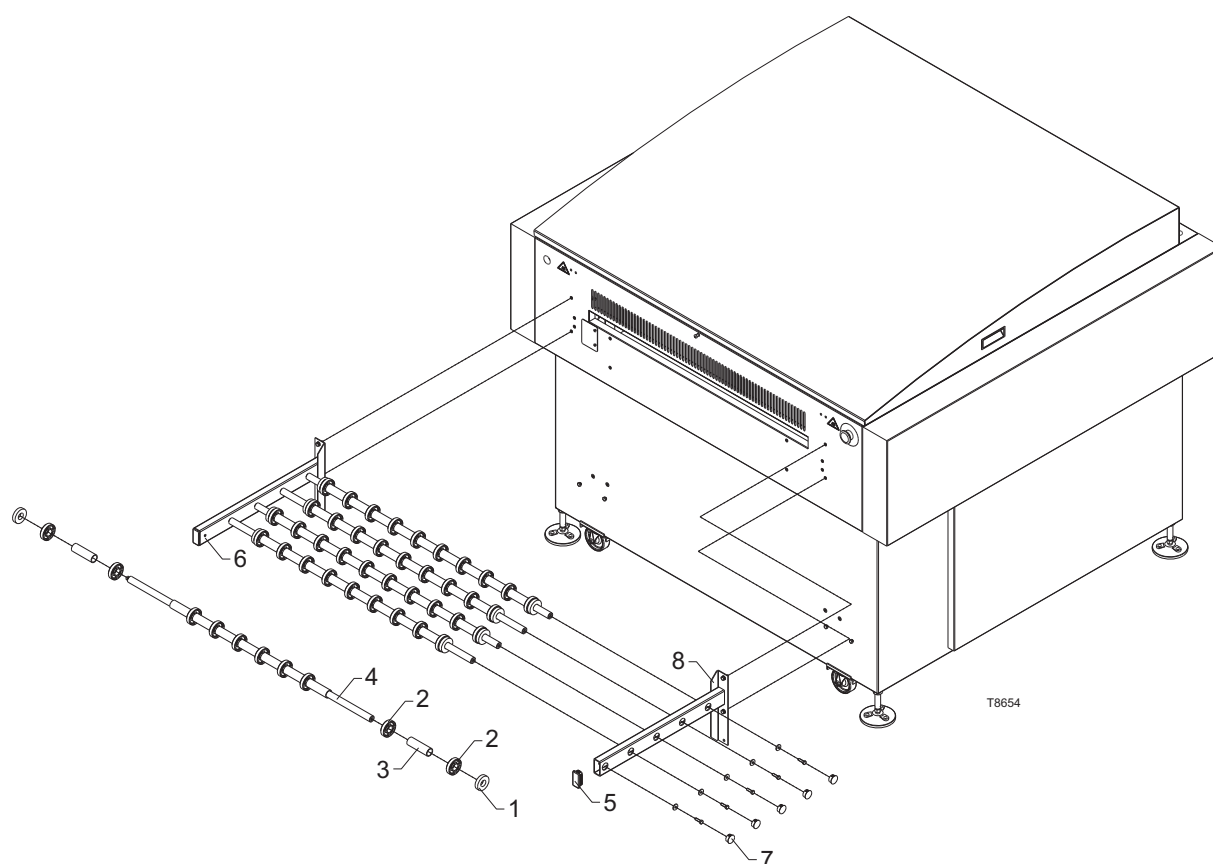
Pos.	85	125	Specification
27	10033359	10034218	GUARD, FRONT, CONVEYOR
28	21050996	21050996	FOOT, STANDARD 135 HIGH, 16MM THREAD
29	10034257	10034257	BRACKET, AXLE, ASSY
30	10034230	10034230	GUARD, TOP, LH, CONVEYOR
31	21948107	21948107	TENSION BRACKET
32		10034260	SLEEVE, SPACER
33	10045880	10045880	PLATE, CONVEYOR, SHORT
* Spare parts numbers for Compact Prebake Oven			



INPUT EXIT TABLE

Input exit table (non-driven) 375 mm

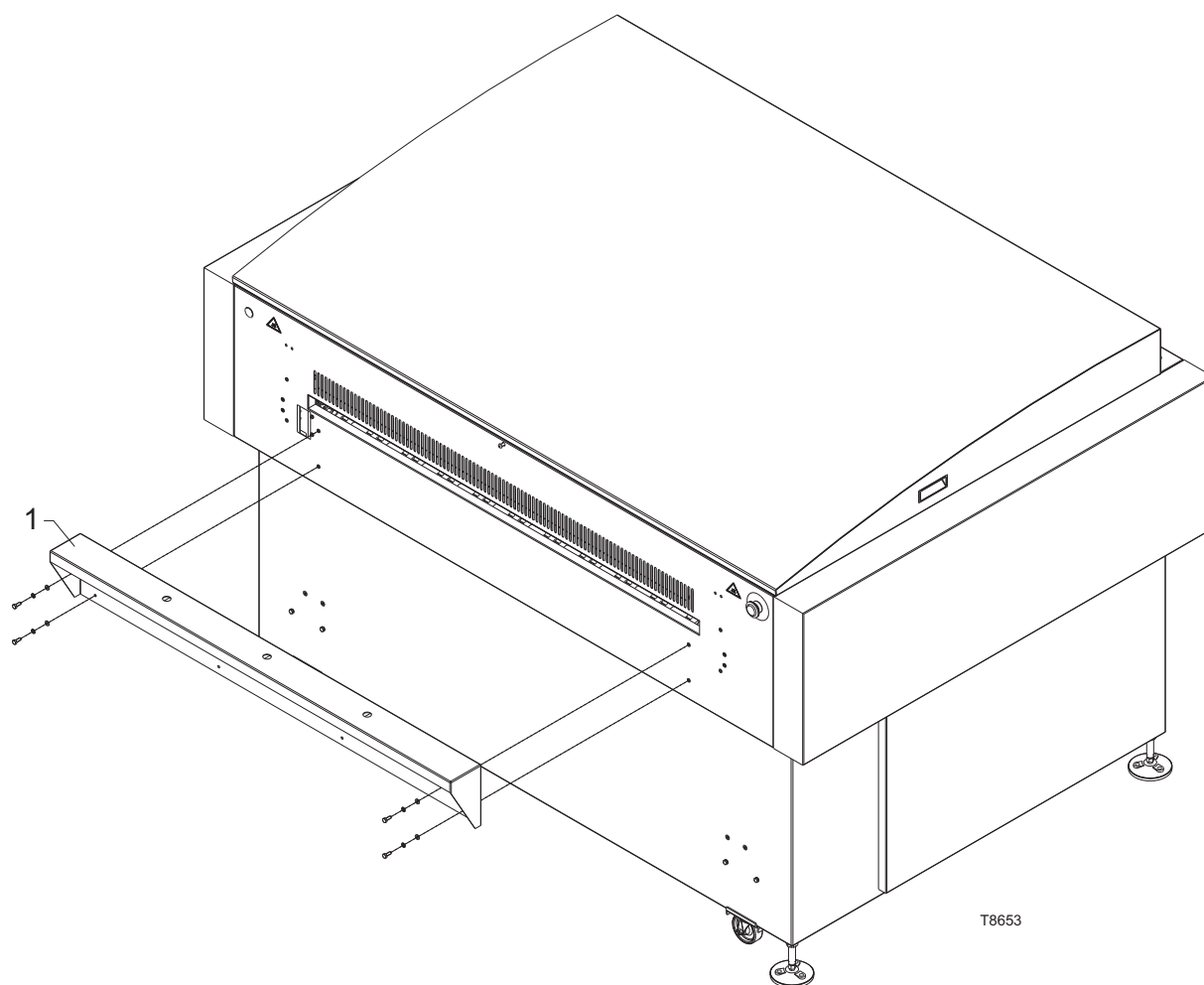
Pos.	85	125	Specification
1	21050125	21050125	FINAL DRIVE WHEEL 3/4"RUBBER
2	21050126	21050126	FINAL DRIVE WHEELS 3/4" PLASTIC
3	21050943	21050943	IDLER BAR SPACER TUBE
4	21111159	21250802	IDLER ROD STAINLESS STEEL
5	21050278	21050278	BUNG 50MM X 25MM
6	21111177	21111177	REAR ROLLER CONVEYOR LEFT
7	21050346	21050346	PLUG, HOLE, DOMED, 22MM
8	21111178	21111178	REAR ROLLER CONVEYOR RIGHT
9			
10			
11			
12			
13			
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30			



INPUT/EXIT TABLE 500mm

Input exit table (non-driven) 500 mm

Pos.	85	125	Specification
1	21050125	21050125	FINAL DRIVE WHEEL 3/4"RUBBER
2	21050126	21050126	FINAL DRIVE WHEELS 3/4" PLASTIC
3	21050943	21050943	IDLER BAR SPACER TUBE
4	21111159	21250802	IDLER ROD STAINLESS STEEL
5	21050278	21050278	BUNG 50MM X 25MM
6	21111180	21111180	CONVEYOR ROLLER FRONT RIGHT
7	21050346	21050346	PLUG, HOLE, DOMED, 22MM
8	21111179	21111179	CONVEYOR ROLLER FRONT LEFT
9			
10			
11			
12			
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FEED/DELIVERY TABLE

Fixed input exit table 100 mm

Pos.	85	125	Specification
1		21174105	FEED TABLE 100 MM
2			
3			
4			
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7			
8			
9			
10			
11			
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